

**DECLARATION FOR UTILITY PATENT APPLICATION**

AS BELOW-NAMED INVENTORS, WE HEREBY DECLARE THAT:

Our residences, post office addresses, and citizenship are as stated below next to our names.

We believe we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled: **AZIMUTHAL SCANNING OF A STRUCTURE FORMED ON A SEMICONDUCTOR WAFER**, the specification of which is attached hereto unless the following box is checked:

☐ was filed on as United States Application Serial No. or PCT International Application No. and was amended on (if applicable).

WE HEREBY STATE THAT WE HAVE REVIEWED AND UNDERSTAND THE CONTENTS OF THE ABOVE-IDENTIFIED SPECIFICATION, INCLUDING THE CLAIMS, AS AMENDED BY ANY AMENDMENT REFERRED TO ABOVE.

We acknowledge the duty to disclose information which is material to the patentability as defined in 37 C.F.R. § 1.56.

We hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed:

Application No.	Country	Date of Filing (day/month/year)	Priority Claimed?
			<input type="checkbox"/> Yes <input type="checkbox"/> No

We hereby claim benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Application Serial No.	Filing Date


We hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. § 112, we acknowledge the duty to disclose information which is material to

patentability as defined in 37 C.F.R. § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

Application Serial No.	Filing Date	Status
		<input type="checkbox"/> Patented <input type="checkbox"/> Pending <input type="checkbox"/> Abandoned

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

10/24/03  
Date

  
Name: Joerg BISCHOFF  
Residence: Schillerstrasse 19, D-98693 Ilmenau, Germany  
Citizenship: Germany  
Post Office Address: Same as Above

Date

Name: Shifang LI  
Residence: 5043 Rigatti Circle, Pleasanton, California 94588  
Citizenship: China  
Post Office Address: Same as Above

Date

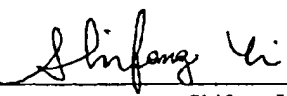
Name: Xinhui NIU  
Residence: 493 W. Portola Avenue, Los Altos, California 94022  
Citizenship: China  
Post Office Address: Same as Above

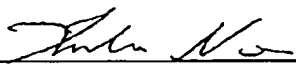
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Date \_\_\_\_\_ Name: Joerg BISCHOFF  
Residence: Schillerstrasse 19, D-98693 Ilmenau, Germany  
Citizenship: Germany  
Post Office Address: Same as Above

Oct, 24, 2003   
Date \_\_\_\_\_ Name: Shifang LI  
Residence: 5043 Rigatti Circle, Pleasanton, California 94588  
Citizenship: USA  
Post Office Address: Same as Above

10/28/2003   
Date \_\_\_\_\_ Name: Xinhui NIU  
Residence: 493 W. Portola Avenue, Los Altos, California 94022  
Citizenship: China  
Post Office Address: Same as Above

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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In re Patent Application of:  
Joerg BISCHOFF et al.

Application No.: To Be Assigned

Group Art Unit: To Be Assigned

Filed: Herewith

Examiner: To Be Assigned

For: AZIMUTHAL SCANNING OF A STRUCTURE  
FORMED ON A SEMICONDUCTOR WAFER

**POWER OF ATTORNEY**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

TIMBRE TECHNOLOGIES, INC., assignee of the entire right title and interest in the above-identified application by assignment, submitted herewith, hereby appoints the members of the firm of Morrison & Foerster LLP, a firm composed of:

Lisa A. Amii (Reg No. 48,199)  
Mehran Arjomand (Reg No. 48,231)  
Vincent J. Belusko (Reg No. 30,820)  
Kimberly A. Bolin (Reg No. 44,546)  
Nicholas Buffinger (Reg No. 39,124)  
Peng Chen (Reg No. 43,543)  
Thomas E. Ciotti (Reg No. 21,013)  
Matthew M. D'Amore (Reg No. 42,457)  
Peter Davis (Reg No. 36,119)  
Scott W. Doyle (Reg. No. 39,176)  
Christopher B. Eide (Reg No 48,375)  
David L. Fehrman (Reg No. 28,600)  
Deborah S. Gladstein (Reg No. 43,636)  
Bruce D. Grant (Reg No. 47,608)  
Alicia Hager (Reg No. 44,140)

Randolph Ted Apple (Reg No. 36,429)  
Shantanu Basu (Reg No. 43,318)  
Jonathan Bockman (Reg No. 45,640)  
Barry E. Bretschneider (Reg No. 28,055)  
Robert K. Cerpa (Reg No. 39,933)  
Alex Chartove (Reg No. 31,942)  
Cara M. Coburn (Reg No. 46,631)  
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Stephen C. Durant (Reg No. 31,506)  
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Richard C. Kim (Reg No. 40,046)	Cameron A. King (Reg No. 41,897) Norman
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Katherine D. Lee (Reg. No. 44,865)	Otis Littlefield (Reg No. 48,751)
Hugh H. Matsubayashi (Reg No. 43,779)	Mika Mayer (Reg No. 47,777)
Robert S. McArthur (Reg No. 45,674)	Gladys H. Monroy (Reg No. 32,430)
Scott C. Moore (Reg No. 52,047)	Philip A. Morin (Reg No. 45,926)
James J. Mullen (Reg No. 44,957)	Kate H. Murashige (Reg No. 29,959)
Martin M. Noonan (Reg No. 44,264)	Catherine M. Polizzi (Reg No. 40,130)
Philip Reilly (Reg No. 41,415)	James Remenick (Reg No. 36,902)
Julia R. Rosenthal (Reg No. 54,410)	Robert Saltzberg (Reg No. 36,910)
Robert E. Scheid (Reg No. 42,126)	Debra A. Shetka (Reg No. 33,309)
Rick D. Shoop (Reg No. 45,763)	Rebecca Shortle (Reg No. 47,083)
David Smith (Reg No. 39,839)	Kevin R. Spivak (Reg No. 43,148)
Shannon Thomas (Reg No. 52,285)	Emily C. Tongco (Reg No. 46,473)
Thomas L. Treffert (Reg No. 48,279)	Brenda J. Wallach (Reg No. 45,193)
Michael R. Ward (Reg No. 38,651)	E. Thomas Wheelock (Reg No. 28,825)
Todd W. Wight (Reg No. 45,218)	Eric Witt (Reg No. 44,408)
Timothy A. Worrall (Reg No. 54,552)	Bryan H. Wyman (Reg No. 48,049)
David T. Yang (Reg No. 44,415)	Peter J. Yim (Reg No. 44,417)
Karen R. Zachow (Reg No. 46,332)	Jie Zhou (Reg No. 52,395)

as its attorneys, and Manuel B. Madriaga (Reg. No. 45,459) of Timbre Technologies, Inc., at 2953 Bunker Lane, Suite 301, Santa Clara, California 95054, with full power of substitution to prosecute this application and to transact all business in the Patent and Trademark Office in connection therewith. The aforementioned appointments are to be to the exclusion of the inventors and their attorneys in accordance with the provisions of 37 C.F.R. § 3.71 provided that if any one of said attorneys or agents ceases being affiliated with the law firm of Morrison & Foerster LLP as partner, employee or of counsel, or with Timbre Technologies, Inc., such attorney's or agent's appointment as attorney or agent and all powers derived therefrom shall terminate on the date such attorney or agent ceases being so affiliated.

The assignee certifies that it has reviewed the assignment and to the best of the assignee's knowledge and belief, title is in the assignee.

Please direct all correspondence regarding this application to the following:

MORRISON & FOERSTER LLP  
Attn: Peter J. Yim  
425 Market Street  
San Francisco, California 94105  
Telephone: (415) 268-7000  
Fax: (415) 268-7522

For: TIMBRE TECHNOLOGIES, INC.

Nikhil Jakatdar  
Nikhil Jakatdar, CTO

Dated: 10/28/03

**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: Joerg BISCHOFF et al.

Application No./Patent No.: To Be Assigned

Filed/Issue Date: Herewith

Entitled: **AZIMUTHAL SCANNING OF A STRUCTURE FORMED ON A SEMICONDUCTOR WAFER**TIMBRE TECHNOLOGIES, INC., a California corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.  
The extent (by, percentage) of its ownership interest is \_\_\_\_\_%

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

[ ] Additional documents in the chain of title are listed on a supplemental sheet.

- [X] Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

10/28/03  
Date

Nickhil Jakatdar  
Nickhil Jakatdar

CTO  
Title

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

# COPY

## ASSIGNMENT JOINT

THIS ASSIGNMENT, by Joerg BISCHOFF, Shifang LI and Xinhui NIU (hereinafter referred to as the assignors), residing at Schillerstrasse 19, D-98693 Ilmenau, Germany ; 5043 Rigatti Circle, Pleasanton, California 94588; and 493 W. Portola Avenue, Los Altos, California 94022, respectively, witnesseth:

WHEREAS, said assignors have invented certain new and useful improvements in **AZIMUTHAL SCANNING OF A STRUCTURE FORMED ON A SEMICONDUCTOR WAFER**, set forth in an application for Letters Patent of the United States, having an oath or declaration executed on even date herewith; bearing Serial No. (To Be Assigned) and filed on herewith; and

WHEREAS, Timbre Technologies, Inc., a corporation duly organized under and pursuant to the laws of California and having its principal place of business at 2953 Bunker Lane, Suite 301, Santa Clara, California 95054 (hereinafter referred to as the assignee, Timbre Technologies, Inc.) is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, said assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto said assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and the application for Letters Patent above-mentioned, and that the same are unencumbered and that said assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.



# COPY

AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use of said assignee, its successors, legal representatives and assigns.

10/24/03  
Date

Joerg Bischoff  
Joerg BISCHOFF

\_\_\_\_\_  
Date

\_\_\_\_\_  
Shifang LI

\_\_\_\_\_  
Date

\_\_\_\_\_  
Xinhui NIU

# COPY

AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use of said assignee, its successors, legal representatives and assigns.

Date

Oct. 24, 2003

Date

10/28/2003

Date

Joerg BISCHOFF

Shifang Li

Shifang LI

Xinhui NIU

Xinhui NIU